

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 April 2004 (29.04.2004)

PCT

(10) International Publication Number  
WO 2004/035686 A3

(51) International Patent Classification<sup>7</sup>: C08L 61/14,  
C08G 8/28, G03F 7/105

DAMME, Marc [BE/BE]; c/o AGFA-GEVAERT, Corporate IP Department 3800, Septestraat 27, B-2640 Mortsel (BE).

(21) International Application Number:  
PCT/EP2003/050633

(22) International Filing Date:  
18 September 2003 (18.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
02102444.3 15 October 2002 (15.10.2002) EP  
60/420,907 24 October 2002 (24.10.2002) US

(71) Applicant (for all designated States except US):  
AGFA-GEVAERT [BE/BE]; Septestraat 27, B-2640  
Mortsel (BE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GROENENDAAL, Bert [NL/BE]; c/o AGFA-GEVAERT, Corporate IP Department 3800, Septestraat 27, B-2640 Mortsel (BE). LOCCUFIER, Johan [BE/BE]; c/o AGFA-GEVAERT, Corporate IP Department 3800, Septestraat 27, B-2640 Mortsel (BE). VAN AERT, Huub [NL/BE]; c/o AGFA-GEVAERT, Corporate IP Department 3800, Septestraat 27, B-2640 Mortsel (BE). VAN

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:  
21 October 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/035686 A3

(54) Title: POLYMER FOR HEAT-SENSITIVE LITHOGRAPHIC PRINTING PLATE PRECURSOR

(57) Abstract: A polymer for a heat-sensitive lithographic printing plate precursor is disclosed wherein the polymer comprises a phenolic monomeric unit wherein the H atom of the hydroxy group of the phenyl group of the phenolic monomeric unit is replaced by a group comprising a N-imide group and wherein the substitution of the polymer increases the chemical resistance of the coating of the printing plate precursor.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/00638

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C08L61/14 C08G8/28 G03F7/105

PTO 12 APR 2005 10/35093

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08L C08G G03F G08G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 016, no. 575 (C-1011), 15 December 1992 (1992-12-15) & JP 04 227624 A (SUMITOMO DUREZ CO LTD; OTHERS: 01), 17 August 1992 (1992-08-17) abstract; figure I ---	1-17
A	US 5 182 351 A (SHIMIZU HISASHI ET AL) 26 January 1993 (1993-01-26) column 4, line 20 ---	1-17
A	US 6 221 989 B1 (KATO HIDETO ET AL) 24 April 2001 (2001-04-24) claim 1 ---	1-17
		-/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search

Date of mailing of the International search report

6 January 2004

15/01/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Paalman, R

**BEST AVAILABLE COPY****INTERNATIONAL SEARCH REPORT**

International Application No

PCT/EP 03/50633

**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 12 31 712 B (BASF AG) 5 January 1967 (1967-01-05) claim 1 -----	1

**BEST AVAILABLE COPY****INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/EP 03/50633

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
JP 04227624	A	17-08-1992	JP	3137295 B2		19-02-2001
US 5182351	A	26-01-1993	DE	4028844 A1		14-03-1991
			JP	2508390 B2		19-06-1996
			JP	3174423 A		29-07-1991
			KR	9505318 B1		23-05-1995
US 6221989	B1	24-04-2001	JP	2000034329 A		02-02-2000
DE 1231712	B	05-01-1967	DE	1241112 B		24-05-1967
			BE	666879 A		14-01-1966
			BE	667075 A		19-01-1966
			DE	1445535 A1		16-01-1969